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3 August 1965

MEMORANDUM FOR: See Distribution

SUBJECT: MIG-21 Threat to U-2 Aircraft

1. Tests and computer/simulator studies have been undertaken recently to determine U-2 vulnerability to the MIG-21 and to refine tactics to be employed by the U-2 to counter the MIG-21 threat.

2. The tests, nicknamed "HUNGRY BOYS II", were conducted on the West Coast in April and June 1965, utilizing F-104 and F-106 aircraft of the Air Defense Command and U-2 aircraft of Detachment "G", Edwards AFB, California. Results of these tests have been evaluated by the Office of Scientific Intelligence, DD/S&T, but have not yet been published.

3. Studies are presently underway at Fort Worth, Texas utilizing the MIG-21 simulator and analog computer of the General Dynamics Corporation and incorporating data derived from the "HUNGRY BOYS II" tests.

4. Results of the tests and what is expected to be achieved from the studies at Fort Worth will be discussed at a meeting to be held in the OSA Control Center at 1400 local on 6 August 1965.

5. Addressees are invited to participate.

SIGNED

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Lt. Colonel USAF
C/IDEA/OSA

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# PROJECT B65-7 DEMONSTRATION

This document contains the results obtained during the demonstration on May 4, 1965. The results are for the System 13A effectiveness against the EWES/Analog simulation of the SA-2 Missile System.

The significant points of interest for the demonstration simulation are presented in Table 1. These parameters represent the values set in for this demonstration. The radar cross section reaches 100 square meters at some target aspect angles; therefore, all parameters were set assuming this condition. During the actual runs the radar cross section was programmed as a function of the target aspect angle with respect to the simulated FAN SONG radar.

The four flight paths used for the demonstration are shown in Figure 1. These flight paths were programmed for a simulated altitude of 70,000 feet and a target speed of 650 feet per second.

The following definition for the maneuvers will help show the philosophy for each:

Maneuver A - This represents a turn initiated by the pilot immediately following the detection of missile guidance of a GUIDELINE missile. This turn was initiated

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